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COUNTRY SCHOOLS AND RURAL SANITATION.

SIX SAMPLE PUBLIC SCHOOLS IN ONE COUNTY. DOES THIS COUNTY NEED MEDICAL INSPECTION IN ITS SCHOOLS? THE COUNTRY SCHOOL TEACHER.

By CH. WARDELL STILES, Professor of Zoology, Hygienic Laboratory, United States Public Health Service.

The town of A——, county of Z——, has about 1,000 inhabitants. It boasts of an excellent brick school building with 9 teachers. There are two privies back of the school and within short fly-flying distance to several houses. Neither privy is sanitary and both have been in filthy condition the several times I have seen them. The food of the near-by families is supplied, by flies, with fecal material from these two privies. Consider the possible results of the presence of a typhoid carrier among the pupils.

There is a two-room school there which is in good condition and well painted. Two privies are present, but both are so filthy that they would naturally prejudice the children against privies in general. There is a driven well, with pump, in front of the school; the water has hollowed out the ground and forms a muddy puddle in which hogs wallow and children wade—for instance, after visiting the privies; the washer of the pump is so poor that it is often necessary to pour in water in order to start the flow. For this purpose water is dipped from the muddy puddle in which the children have been wading and the hogs wallowing. This pump furnishes the drinking water to about 60 children and 2 teachers.

A small village, C——, is located 2 miles farther on with about 150 inhabitants. (No person in town, including the mayor, could give me an estimate of the number of inhabitants.) Upon inquiring here for a privy, one of my assistants was informed that there was none in town for men except [a miserable] one near the church. The school, however, has two privies. Both of these are within short flyflying distance to two houses which take boarders, including traveling transients.

About 3 to 4 miles farther on is a rural school, D——, with about 30 pupils. There is no privy present, but the boys go down the road in one direction, the girls up the road in another.

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About 2 miles farther along the railroad is the town of E——, with about 600 inhabitants. There is a school with 1 male and 3 female teachers and about 200 enrolled children. When I first visited this school (the week before it opened for its fall term) there was no privy either for the boys or the girls. The boys went down one fork of the road, the girls the other. The school building was open and the passing public was using the upper room—intended for the higher classes—as a public privy. Several women in town informed me that they had repeatedly urged that privies be provided for the 200 boys and girls at this school. Recently the school has been provided with two privies.

About 2 miles farther is another school, F---, with about 30 pupils and 1 young woman teacher. The pupils have an abundance

of hookworm disease, but no school privy.

The foregoing observations were made since August 15, 1912. They are published herewith without comment, except for the remark that the county in question is by no means exceptional. The schools represent American rural education—namely, teaching the American rural children how to live.

The country school teacher.—If a county superintendent of education gives an address before a State convention he does not seem to feel that he has done his full duty (judging from a number of meetings that it has been my privilege to attend within the last few years) unless he says something about the inefficiencies of the country school teachers, the few years during which they remain in the work, and the fact that many of them teach simply in order to earn money for their wedding trousseau.

While I would not for a moment presume to be capable of debating with the gentlemen in question, it is difficult to escape the impression that theirs is not the only point of view in the premises. Many years of field work in the rural districts have given me an opportunity to see a great many rural schools and their teachers, and as a practical sanitarian I take the liberty of presenting for consideration a side of the problem which I have not yet heard county superintendents emphasize in their convention addresses.

First of all, the point so often made that these young women teach but a few years and then marry might well be interpreted as meaning that they are of such a high standard that they are in great demand

as wives—an interpretation which should be heartily indersed.

Certain it is that the average young woman has few inducements offered to her to remain a teacher in the many country schools I have seen. As a rule, she leaves a home which is superior to the homes of the parents of her pupils in which she is forced to board if she lives in the community where she teaches. She is paid a miserable salary as reward for exposing herself five days a week to indecent and

insanitary conditions surrounding the school which jeopardize and occasionally end either her health or her life. She is blamed by her patrons for not giving a better education than she succeeds in giving to unhealthy children who on an average are not physically or mentally capable of digesting the education she does give to them. She has little or no sympathy from her school board in regard to the difficulties that she faces. If she suggests improvements in the sanitary surroundings, her suggestions usually fall upon deaf ears. She is superior in education, refinement, culture, and in nearly every other respect, to the majority of parents in the community in which she teaches. She lives a life of self-sacrifice, too often combined with indigestion and pimples, because of the class of food she is forced to eat. If she sends home from school a pupil who has the itch or in whom she suspects some contagious disease, she is blamed for her officiousness; if she contracts the disease herself, she furnishes a substitute at her own expense.1

But she is the greatest civil zing influence to-day in our rural districts and is deserving of much more sympathy and support and of much less criticism than she is receiving.

Without denying that a more pedagogically trained class of teachers might be obtained if they were paid better salaries, I venture to suggest to their critics that they will probably be able to retain their young women a year or two longer if they improve the present indecent and insanitary conditions under which these young women have to work to a point where the girls can teach without endangering their health and lives; and these teachers will certainly have better success in their pedagogic efforts if the sanitary conditions surrounding the schools are improved to a point where the country school will not form—what it is to-day—the great disease-spreading center for rural and semirural communities.

In conclusion, I can not refrain from mentioning what may be admitted to be an extreme and somewhat exceptional case: A young woman from a town contracted to teach in a rather remote country school. She was advised to engage board with the family of the chairman of the local school board and did so before leaving home. Upon arriving at her destination she was shown into the one-room house, containing five beds, and was asked which bed she preferred to occupy.

All honor to our country school-teachers, who are to-day the greatest factors for good in our rural districts.

¹ For instance, two of the three young women teaching in the rural school where I am studying the children, the day this short article is written, have just contracted itch from their pupils and have the bonor of paying a substitute. There is no medical inspection of the children, and the teacher was blamed for sending home a boy infected with scabies, but sentiment would be distinctly against the teachers if they themselves were known to attend school when they had this infection.

HOOKWORM DISEASE IN SOUTHERN CHINA.

By B. W. Brown, Surgeon, United States Public Health Service.

In view of the action of the United States immigration authorities in requiring a rigid examination for hookworm infection of all aliens arriving in the United States, the question of the distribution of this disease in the Orient becomes of interest and importance to the public health.

It seems to be the general opinion among consular physicians and medical missionaries in this part of China that hookworm infection is prevalent in southern China, especially among the agricultural class. When it is taken into account that all crops in China are fertilized almost entirely with human excreta, that farmers work barefooted in this mixture, and that Chinamen drink freely of unfiltered water and eat uncooked vegetables, it is not surprising that they should become infected with intestinal parasites.

Dr. Bell, who has been connected with the Government Civil Hospital at Hongkong for a number of years, reports 7.5 per cent infected out of 253 Chinese examined, and 10.5 per cent infected out of 172 Hindus, and negative results in 159 examinations of Europeans.

The annual report of the colony of Hongkong for 1909 does not mention the disease. Dr. Francis Clark, the medical officer of health for Hongkong, states that in his opinion the practical immunity of the colony is due to the fact that all human excreta, instead of being used in the colony, is collected daily and shipped to Canton.

The South China Medical College at Canton reports that the neighborhood of Canton is infected, principally in the agricultural districts, but that no scientific statistics are available. Dr. Whyte, of the English Presbyterian Mission at Swatow, has done some scientific work on this subject, and he reports that the whole of his district is infected, the degree of infection being 74.5 per cent in the case of farmers and 54 per cent of the general population. These conclusions were based on the examination of 257 cases, too small a number from which to draw definite conclusions but indicating general infection of the country surrounding Swatow.

The most conclusive evidence of the infection of southern China is shown in the work of Drs. Grone, Aubrey, and Lindsay Wood, who, for the past three months, have been conducting the examinations of emigrants leaving Hongkong for the United States. They have examined to December 20, 1912, 556 persons for ancylostomiasis and have found 65 per cent infected.

These emigrants come from Canton and vicinity and the towns and districts near Hongkong. The town and district of Sun Ning, which is not very far from Hongkong, furnished 46 infected cases out of 102 examined. The statement of character of occupations of

those examined is not reliable, as the Chinese emigrant prefers to pass as a merchant or student rather than a laborer; but Dr. Aubrey stated that as a result of careful questioning he believed the large majority of those examined by him and found infected with hookworm were city born and belonged to the student class. It is interesting to note the number of cases found infected with other intestinal parasites. Drs. Grone, Aubrey, and Lindsay Wood report 368 cases of Ascaris lumbricoides (eel worm or stomach worm), 320 cases of Trichocephalus dispar (whip worm), and an occasional infection with Clonorchis sinensis (Chinese liver fluke), Strongyloides stercoralis (Cochin China worm), Fasciolopsis buskii (Busk's fluke), and Oxyuris vermicularis (pinworm).

The steamship companies are having all Chinese steerage passengers bound for the United States examined and are rejecting all found infected. Most of the infected ones are treated by the Hongkong firm above mentioned, and after two examinations, if no eggs are found, they are certified for shipment. The following memorandum of method of examination and treatment was kindly given me by Dr. Aubrey, and I quote in full:

METHOD OF EXAMINATION FOR HOOKWORM OVA.

- 1. About 1 ounce of feces is taken and an emulsion made.
- 2. Emulsion is strained through fine mosquito netting into a test tube.
- 3. The test tube is allowed to stand till a sediment about an inch in height is formed at the bottom. (This sediment contains the whole of the egg content, equally distributed throughout it.)
 - 4. The supernatant fluid is poured off and the sediment centrifugalized.
- The supernatant fluid is again poured off and the sediment thoroughly mixed with half a test tube of water.
- 6. This test tube is allowed to sediment. (In this watery medium the eggs fall first to the bottom.)
- 7. As soon as the sediment appears on the bottom of the test tube a long narrow pipetteful is taken up and suspended vertically.
- After a few minutes the eggs contained in the pipette fall to the bottom; a drop from the bottom is then examined.

This method gives a sediment which consists almost entirely of eggs and contains scarcely any fecal débris, and the whole egg content of the original ounce of material can be looked through on three or four slides.

TREATMENT.

Patients are starved throughout the treatment, only tea and Chinese soup being allowed. Drugs used:

Oil of eucalyptus, 30 minims.

Chloroform, 40 minims (increased later to 50 minims).

Castor oil, 10 drams.

The above is given in two doses with an hour's interval, or in 2-dram doses every 20 minutes.

Thymol, 15 to 120 grains a day, is given in a single dose or in doses repeated at various intervals.

The smaller doses of thymol were generally given on two consecutive days, the larger ones on one day only. A preliminary purge is given on the preceding day. The oil mixture has generally been tried first and subsequent treatments have alternated between oil and thymol.

The statement here given contains all the strictly scientific data to be obtained on this subject. While the number of cases is small the territory covered is of considerable extent, and the conditions of life and customs prevailing being the same throughout southern China it is highly probable that if the inhabitants of Swatow, Canton, Hongkong, and the vicinity be infected with hookworm the infection is general in southern China.

ANTIMENINGITIS VACCINATION.

A note by WADE H. FROST, Passed Assistant Surgeon, United States Public Health Service.

Inoculation with killed cultures of the meningococcus has recently been advocated as a prophylactic for cerebrospinal meningitis, especially by Sophian.¹ He has used for this purpose cultures grown in glucose agar, killed by heating to 50° C. for one hour. He advocates three injections of 500 million, 1,000 million, and 1,000 million, respectively, at intervals of seven days.

As to the efficacy of this vaccination, Sophian and Black (loc. cit.) have shown by agglutination and complement-fixation tests that in man the vaccination causes the development of specific antibodies similar to those developed in the course of an attack of cerebrospinal meningitis, and presumably indicating a certain degree of immunity. They state that several hundred persons were vaccinated in Kansas City during the epidemic there in 1911, none of whom subsequently developed the disease. In the absence of comparative statistics this statement alone does not justify any conclusion as to the prophylactic value of the procedure. They also state that about 100 persons were vaccinated in Dallas, Tex., during an epidemic of meningitis in 1911. Two of these, nurses, each of whom had received two inoculations, developed cerebrospinal meningitis some weeks later. Both recovered.

On the whole their statements furnish no evidence of the prophylactic value of this vaccination, while they do indicate, by the instances cited above, that it does not afford absolute protection against infection.

At present an opinion as to the value of this vaccination can be based only on indirect evidence, viz, the development of antibodies in the blood of vaccinated persons, and by analogy, the efficacy of similar inoculations in the prevention of typhoid fever and bubonic plague.

¹ Sophian, A., and Black, J.: Prophylactic vaccination against meningitis, Journal American Medical Association, 1912, vol. 59, p. 527.

Statistical evidence of the value of any prophylactic against cerebrospinal meningitis is extremely difficult to obtain, because of the epidemiological peculiarities of this disease. It does not show a constant tendency to spread. In one community it may become epidemic, while when introduced into another contiguous community at the same time under circumstances to all appearances equally favorable for the development of an epidemic, the infection may die out after causing only a few cases. Again, even in epidemics, the proportion of the population attacked is relatively small (from 0.1 to 1 per cent); and in this, as in other respects, epidemics in different localities vary widely without discoverable cause. Since it is impossible, in any given community, to foretell the extent to which cerebrospinal meningitis will spread when introduced, it is equally impossible to estimate the efficacy of such preventive measures as may have been carried out. Only very extensive and very careful statistics could prove the prophylactic value of vaccination or any other measure of prevention.

The objections which may be brought forward against antimeningitis vaccination are the danger of using an incompletely sterilized culture; the possibility of inducing a temporary state of increased susceptibility ("negative phase"); the discomfort due to the local and general reaction to inoculation, and the labor and expense involved.

The first-mentioned danger is probably negligible. The danger of inducing a negative phase of immunity is an unknown quantity. It has not been proven to be a real danger in antityphoid and antiplague vaccinations, and need not, for the present, be considered as a valid objection to antimeningitis vaccination. Such danger as may exist would in all probability be reduced by the simultaneous injection of antimeningitis serum.

According to Sophian and Black, a local reaction, more or less painful, is common. There may be no general constitutional reaction, but frequently there are mild symptoms, headache, malaise, and fever, lasting for 24 hours. More severe symptoms are said to have been noted, but to be unusual.

Even granting the efficiency of antimeningitis vaccination as a prophylactic, the labor and expense would be very great in proportion to the results attained. In dealing with an epidemic of smallpox, for example, a disease which, when epidemic, may be expected to attack a very large proportion of those exposed who are unvaccinated, the results attained by wholesale vaccination are relatively great. One may count on preventing by this means from 25 to 50 cases of smallpox in every 100 exposed persons not previously vaccinated.

In vaccination against a disease such as meningitis, which is by nature of rare occurrence, one may count on the prevention at most of only one to ten cases in each thousand persons vaccinated. It is evident that unless the vaccination is done on a very extensive scale it offers but little chance of materially reducing the prevalence of the disease. Notwithstanding its possible dangers, and the lack of proof that it is efficient, antimeningitis vaccination deserves full consideration as a prophylactic measure, because of the inefficiency of other preventive measures and the terrible consequences of the disease.

It would seem wise at present to approve the vaccination of all who may desire it, in communities where the disease is epidemic, or where an epidemic seems likely to occur, especially of physicians and nurses who are likely to come into intimate contact with cases. The question will often arise whether persons already intimately exposed to cerebrospinal meningitis should be vaccinated and whether there is more chance of protection or of inducing a phase of increased susceptibility. There is ample ground for an honest difference of opinion on the subject; but the burden of proof is apparently on those who assert that there is danger from the "negative phase."

It does not appear advisable at present to attempt to make antimeningitis vaccination compulsory, nor to divert to wholesale vaccination large sums of money, which might otherwise be applied, perhaps with more certainty of results, to the early diagnosis, serum treatment, and hospital care of developed cases.

Wherever antimeningitis vaccination is employed it should be done as an experiment. Careful records should be obtained of each person vaccinated and of the incidence of meningitis among the vaccinated and the unvaccinated population of each community.

DERATIZATION OF RAT-PROOF BUILDINGS.

A note by W. C. RUCKER, Assistant Surgeon General, United States Public Health Service.

It not infrequently happens that in rat-proofing buildings rodents are imprisoned. Sometimes buildings which are rat proof in the ordinary sense of the term may become rat infested by the introduction of rodents in freight. In both situations the rodents are protected from their natural enemies, and if the food is sufficient their numbers may increase greatly. In granaries, storehouses, and abattoirs it is frequently very difficult to eradicate them by the ordinary means. The animals soon become trap shy, and while a considerable number may be captured in barrel traps it frequently seems impossible to effect a complete deratization in such a situation.

The ordinary poisons such as arsenic, phosphorus, barytes, and the like, may be contraindicated on account of the danger of impregnating foodstuffs with them. In such a situation, particularly in abattoirs, Danyz virus should not be used, because of its pathogenic action on man. What is required is some agent which will kill the rat that takes it and at the same time will be without danger of poisoning the foodstuff. For this purpose a poison made according to the following formula has been found efficacious: Plaster of Paris, 6 parts; pulverized sugar, 1 part; flour, 2 parts.

This should be exposed in a dry place in open dishes. It is wise to place the dishes in the rat's runway. In order to make the bait more attractive the edge of the dish may be rubbed with a piece of fish or smeared with oil in which sardines have been packed. The plaster of Paris forms a cast in the alimentary canal of the rat, and hence produces death.

PREVALENCE OF DISEASE.

IN CERTAIN STATES AND CITIES.

SMALLPOX.

Arkansas-At Ashdown.

The secretary of the Arkansas State Board of Health reported by telegraph from Little Rock February 3, 1913, that three cases of smallpox in one family had been notified in Ashdown, Little River County.

California report for December, 1912.

Places.	Cases.	Deaths.	Places.	Cases.	Deaths.
California (Dec. 1-31): Counties— Alameda Amador Butte Kern Los Angeles	5 18 1 1 3 3	1	California (Dec. 1-31)—Contd. Counties—Continued. San Diego San Francisco Santa Clara Shasta Siskiyou Tulare	2 6 1 37 1	
Riverside Sacramento San Bernardino	3 3		Total	86	1

California-In San Francisco and Vicinity.

Surg. Long, of the Public Health Service, reported by telegraph from San Francisco February 4, 1913, that 74 cases of smallpox with 1 death had been notified in San Francisco since July 1, 1912, and that 6 cases were still in hospital on the date of the report; that 25 cases had been notified in Oakland since December 1, 1912, with 7 cases still on hand; that 1 case was present in Alameda; that 9 cases with 5 deaths had been reported in Berkeley since December 17, with 4 cases still under treatment.

California-In Imperial County.

Acting Asst. Surg. Reichter, of the Public Health Service, reported by telegraph from Calexico, Cal., February 4, 1913, that 18 cases of smallpox with 4 deaths had been notified in Imperial County during the month of January, and that no new cases were reported during the week ended February 1, 1913.

Florida-At Pensacola.

Acting Asst. Surg. Kennedy of the Public Health Service reported by telegraph from Pensacola, Fla., February 1, 1913, that 160 cases of smallpox had been notified at Pensacola since December 28, 1912, only 7 of the cases reported having occurred among the white population; that the health authorities had performed many vaccinations; and that 20 new cases had been reported during the week ended January 25.

Iowa-Fort Dodge and Des Moines.

The secretary of the State board of health of Iowa reported January 29, 1913: The following epidemics of smallpox have been reported to this office to date: Fort Dodge, Webster County, 29 cases; Des Moines, Polk County, 69 cases. Thirty-one of the cases in Des Moines were reported to you January 23, and since that date 38 additional cases have been quarantined.

Oklahoma-Virulent form.

Information was received through the United States Commissioner of Indian Affairs January 31, that there were 31 cases of virulent smallpox in McCurtain County, Okla.; that additional cases were occurring daily; and that 200 exposed persons were under quarantine; and that 75 cases, with 16 deaths, had occurred in Choctaw County.

The Department of the Interior has begun the general vaccination of all Indians in the vicinity.

The State Commissioner of Health of Oklahoma reported by telegraph from Oklahoma City February 1, 1913, that 32 cases of smallpox had been notified in McCurtain County and 68 in Choctaw County. Of the latter number 41 cases were reported in the town of Hugo. All reported cases were under quarantine.

Pennsylvania-Allegheny Home, Woodville-Virulent form.

Surg. Stoner reports an outbreak of virulent smallpox at the Allegheny Home, Woodville, with a total to February 4 of 10 cases and 3 deaths. The first case occurred January 23, the last February 4, 1913. The first 3 cases ended fatally.

Texas At Galveston.

Surg. Guiteras of the Public Health Service reported by telegraph from Galveston February 1, 1913, that 2 new cases of smallpox, with 1 death, had been notified at Galveston, making a total of 7 cases to the date of his report. One case had been discharged and 5 cases remained under treatment.

City Reports for Week Ended Jan. 18, 1913.

Piaces.	Cases.	Deaths.	Places.	Cases.	Deaths
Baltimore, Md Bayonne, N. J	12		New Orleans, La Niagara Falls, N. Y	1 2	
Cambridge, Ohio	5		Oakland, Cal	ĩ	
Chattanooga, Tenn	22		Omaha, Nebr	3	
Danville, Ill	3 5		Philadelphia, Pa Portsmouth, Va	1	********
Evansville, Ind Johnstown, Pa	40		Providence, R. I	3	
Knoxville, Tenn La Crosse. Wis	4 7		Spokane, Wash	10	
os Angeles, Cal			Washington, D. C	9	
Milwaukee, Wis	6		Zanesville, Ohio	12	

CEREBROSPINAL MENINGITIS.

Illinois.

Surg. Gassaway of the Public Health Service reported by telegraph from Cairo, Ill., February 2, 1913, that there had been a total of 19 cases of cerebrospinal meningitis reported at Gale, Alexander County, since the beginning of the outbreak December 31, 1912. Fourteen cases had died, 3 had recovered and 2 were convalescent.

Kentucky.

The secretary of the State Board of Health of Kentucky reported by telegraph January 31, 1913, that cerebrospinal meningitis had been reported present in Mason and Lewis Counties.

Cases and Deaths Reported by Cities for Week Ended Jan. 18, 1913.

Places.	Cases.	Deaths.	* Places.	Cases.	Deaths.
Baltimore, MdBoston, Mass	3 1	2	Newark, N. J. New Bedford, Mass New Orleans, La.	1 1 3	••••
Dayton, Ohio	i	1	New York, N. Y. Peoria, Ill	1 6 1	
La Crosse, Wis Los Angeles, Cal Nashville, Tenn	1	2	Philadelphia, Pa	1 2 1	*******

POLIOMYELITIS (INFANTILE PARALYSIS).

Cases and Deaths Reported by Cities for Week Ended January 18, 1913.

During the week ended January 18, 1913, poliomyelitis was reported by cities as follows: New York, N. Y., 4 cases, with 1 death; Los Angeles, Cal., 5 cases, with 4 deaths; Worcester, Mass., 1 death.

ANTHRAX.

Wilmington, Del.-In Man.

J. Austin Ellison, secretary of the Board of Health of Wilmington, Del., reported January 24, 1913, that during the preceding week there had been 4 cases of anthrax in man with 1 death at Wilmington, and that all the patients had been employed in a "morocco factory," where they handled imported hides.

ERYSIPELAS.

Cases and Deaths Reported by Cities for Week Ended Jan. 18, 1913.

Places.	Cases,	Deaths.	Places,	Cases.	Deaths.
Binghamton, N. Y			New York, N. Y		1
Boston, Mass Braddock, Pa	1	1	Norristown, Pa Oakland, Cal	1	
Buffalo, N. Y	7	2	Philadelphia, Pa Pittsburgh, Pa	16	
Cleveland, Ohio	2	2	Reading, Pa Richmond, Va	2	*******
Kalamazoo, Mich Malden, Mass		·····i	Rutland, Vt	15	
Milwaukee, Wis New Castle, Pa	3		South Bethlehem, Pa York, Pa	1	

PELLAGRA.

Georgia.

During the week ended January 18, 1913, one case of pellagra was reported at Columbus, Ga.

PLAGUE.

Rats Collected and Examined for Plague.

Places.	Week ended-	Found dead.	Total collected.	Exam- ined.	Found infected
California: Cities— Berkeley. Oakland. San Francisco. Washington:	Jan. 18,1913 do	7 36	194 702 1,694	140 609 1,367	
City— Seattle	do		970	921	

California-Squirrels Collected and Examined for Plague Infection.

During the week ended January 18, 1913, there were examined for plague infection 18 ground squirrels from San Joaquin County. No plague-infected squirrel was found.

PNEUMONIA.

Cases and Deaths Reported by Cities for Week Ended Jan. 18, 1913.

Places.	Cases.	Deaths.	Places.	Cases.	Death
Altoona, Pa		2	New Bedford, Mass		
urora, Ill			New Castle, Pa		
altimore, Md			Newburyport, Mass		
Binghamton, N. Y.			New Orleans, La		
Boston, Mass		37	Newport, Ky		
Braddock, Pa	. 2	*********	Newton, Mass		
Bridgeport, Conn		6	New York, N. Y		
Brookline, Mass			Niagara Falls, N. Y		
Buffalo, N. Y			Norristown, Pa	. 1	
ambridge, Mass		6	North Adams, Mass		
ambridge, Ohio		1	Oakland, Cal		
helsea, Mass		2	Oklahoma, Okla		
hicago, Ill	54	161	Omaha, Nebr		
hicopee, Mass			Passaic, N. J.		
incinnati, Ohio		20	Pawtucket, R. I		
leveland, Ohio	41		Peoria, Ill		
offey ville, Kans	1		Philadelphia, Pa	42	
olumbus, Ind			Pittsburgh, Pa	30	
			Plainfield, N. J	. 30	
oncord, N. H					
umberland, Md			Providence, R. I		
ayton, Ohio	********		Reading, Pa		
unkirk, N. Y	2	2	Richmond, Va		
lizabeth, N. J		5	Rockford, Ill		
lmira, N. Y		2	Sacramento, Cal		
vansville, Ind			Saginaw, Mich		
verett, Mass		1	St. Joseph, Mo	. 4	
all River, Mass		8	San Diego, Cal	. 4	
alesburg, Ill			San Francisco, Cal	. 18	
rand Rapids, Mich			Saratoga Springs, N. Y Schenectady, N. Y	. 5	
arrisburg, Pa		6	Schenectady N V	14	
artford, Conn			South Bend, Ind		
averhill, Mass			South Bethlehem, Pa		
ersey City, N. J.			South Omaha, Nebr		
alamazoo, Mich	9	11	Springfield, Ill		
noxville, Tenn		3			
a Crosse, Wis			Springfield, Mass		
a Crosse, Wis		2	Spokane, Wash	. 1	
a Fayette, Ind		1	Steelton, Pa	. 1	
ancaster, Pa			Superior, Wis		
exington, Ky		5	Taunton, Mass		
ogansport, Ind		1	Toledo, Ohio		
owell, Mass		10	Waltham, Mass		
nchburg, Va		2	Washington, D. C		
vnn, Mass		1	Wilkes-Barre, Pa		
alden, Mass		2	Wilmington, N. C		
anchester, N. H	5	5	Woburn, Mass		
edford, Mass		2	York, Pa	1	
elrose, Mass		1	Zanesville, Ohio	1	
oline, Ill			removement to the contract of		

SCARLET FEVER, MEASLES, DIPHTHERIA, AND TUBERCULOSIS.

Pittsburgh-Measles.

Surg. Stoner, of the Public Health Service, reported by telegraph from Pittsburgh, February 1, 1913, that during the week ended January 25, 1913, there had been reported in Pittsburgh 430 cases of measles, making a total of 3,655 cases since the beginning of the outbreak, November 1, 1912.

Richmond, Va.-Measles Epidemic.

Dr. E. C. Levy, chief health officer of Richmond, Va., reported February 5 that the city of Richmond is in the midst of measles epidemic; that through the knowledge gained by a study of the prevalence of the disease in times past the health department was again able to warn the physicians and citizens of the impending outbreak at a time when there were only a half dozen known cases in the

city. The epidemic began the end of November last. In January, 1,616 cases were reported, and cases are now being notified at the rate of 100 a day. So far there have been only 7 deaths.

Cases and Deaths Reported by Cities for Week Ended Jan. 18, 1913.

Cases and Deaths Reported by Cities for Week Ended Jan. 18, 1913—Contd.

	Popula- tion,	Total deaths	th	iph- eria.	Me	asles.		arlet ver.		osis
Cities.	United States census 1910.	from all causes.	82	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Possible
rom 25,000 to 50,000 inhabitants:										
Atlantic City, N. J.	46, 150	17	1		. 2		2			
Aurora, Ill	29, 307	9	1				4	*****	2	
Binghamton, N. Y	48, 443	20	2		i		2		i	1
Brookline, Mass Chattanooga, Tenn	27, 792 44, 604		-				ĩ		2	
	32, 452	19	5		3		2			1
Chicopee, Mass. Danville, Ill. East Orange, N. J. Elmira, N. Y. Everett, Mass.	25, 401	6						1	1	
Danville, Ill	27,871	8			1		1	1		1
East Orange, N. J	34,371		1				5	*****	1	
Elmira, N. Y	37, 176	10	5 2		9		3		i	
Everett, Mass	33,484	12	-	*****	57		1			
Fitchburg, Mass	37, 826 44, 115	9			26		i		2	
Kalamazoo Mich	39, 437	14		1	-		i		3	1
Knoxville, Tenn	36,346	13	1		7					1
La Crosse, Wis	30, 417	16								1
Lancaster, Pa	47,227		5		11		3		1	
Lexington, Ky	35,099	34	1		1				4	
Lynchburg, Va	29, 494	11			15		1		1	1
Haverhill, Mass. Kalamazoo, Mich Knoxville, Tenn La Crosse, Wis Lancaster, Pa Lexington, Ky Lynchburg, Va Malden, Mass	44, 404	10	5	1	10					
Newcastle, Pa	36, 280	7	0		19		A			
Newton Mass	30, 309 39, 806	15			1					
Newcastle, Pa	30, 445	14	1	2	61	1				
Norristown, Pa	27,875	9	1	1	1					1
Norristown, Pa. Orange, N. J. Pittsfield, Mass.	29,630	9					5		1	
Pittsfield, Mass	29,630 32,121	16	3				4	1		
	33, 100	9	1		2					
Racine, Wis. Roanoke, Va. Rockford, Ill. Sacramento, Cal.	38,002	22		*****	2		2		3	
Roahford III	34,874	11	1 4		-			*****		
Sacramento Cal	45, 401 44, 696	27			3		*****			
Salem, Mass	43,697	8					4			
San Diego, Cal	39,578	6	1						2	
San Diego, Cal South Omaha, Nebr	26, 259	11	1							
Superior, Wis	40,384	10	1				2			
Taunton, Mass	34, 250	15							1	
Waltham, Mass	27,834 35,403	5	4	1	3		4		1	
West Hoboken, N. J	35, 403	*******	5 7		31		1		1	
Wilmington N C	41,641 25,748	11	'		31		1	*****		***
Vork Pa	44,750	10			27		1			
South Omana, Nebrasian Superior, Wis. Taunton, Mass. Waitham, Mass. West Hoboken, N. J. Wheeling, W. Va. Wilmington, N. C. York, Pa. Zanesville, Ohlo. ss. than 25.000 inhabitants:	28,026	6	4		1		4			
ss than 25,000 inhabitants:	-0,000									
ss than 25,000 inhabitants: Beaver Falls, Pa					5					
Biddeford, Me Braddock, Pa Clinton, Mass	17,079 17,759	3				*****				
Braddock, Pa	17,759	2	2		15 66		1			
Coffeewille Kons	13,075	-	î		00				····i	
Colinton, Mass. Coffeyville, Kans. Columbus, Ga. Columbus, Ind. Concord, N. H. Cumberland, Md. Dunkirk, N. Y. Galesburg, Ill. Harrison, N. J. Kearny, N. J. La Fayette, Ind. Logansport, Ind. Mariboro, Mass. Masillon, Ohlo. Medford, Mass. Moline, Ill. Monristown, N. J. Morristown, N. J.	12,687 20,554	2		*****						
Columbus, Ind.	20,001	4	1							
Concord, N. H	21,479	14			5		1			
Cumberland, Md	21,839	17							3	
Dunkirk, N. Y		6	2		1				1	
Galesburg, Ill	22,089	13	1							
Harrison, N. J	14, 489	3 6	1		2				1	
La Favette Ind	18,659 20,081	13	1		-			*****		
Logansport, Ind	20,001	5			2		1			
Marlboro, Mass	14,759	4			1					
Masillon, Ohio	23, 830 23, 150	4								
Medford, Mass	23, 150	7	1		8					
Melrose, Mass	15,715	9			1		2 2		2	
Moline, III	24, 190	8			1		4	*****		
Morristown N I	12,507	6			1		- 1	*****	1	
Nanticoke Pa	18,857	4								
Newburyport, Mass	18,857 19,240 22,019	3 6 4 6 10	1		1				2	
North Adams, Mass	22,019	10	1							
Northampton, Mass	19,931	4	1	1	2		4		2	
Newburyport, Mass. North Adams, Mass. Northampton, Mass. Palmer, Mass. Plainfield, N. J. Rutland, Vt.		1								
Plainfield, N. J	23,550	6			1				1	
Secretary Company N. V.	13,546	1			17				1	
Saratoga Springs, N. Y South Bethlehem, Pa					3		i			
Steelton, Pa	14,476	7			0		î		2	
Warren, Pa	11,080	4 1 6 1 4 8 7 3 9			27					
Wilkinsburg, Pa		9	1		17		2			
	18,594									

IN INSULAR POSSESSIONS.

HAWAII.

Plague-Infected Rats Found.

On December 30, 1912, a plague-infected rat was found at 2 House Camp, Paauhau, Hawaii. The last previous known case of rodent plague in that locality occurred March 2, 1912.

During the week ended January 11, 1913, plague was verified in a rat found dead at the Kukuihaele Landing warehouse.

Examination of Rodents for Plague Infection.

During the week ended January 11, 1913, there were examined for plague infection 273 rats. No plague-infected rat was found.

At Hilo rats and mongoose were examined as follows: Week ended January 4, 1913, 515; week ended January 11, 1913, 915. No plague infection was found.

At Honokaa rats and mongoose were examined as follows: Week ended January 4, 1913, 1,154. One plague-infected rat was found; week ended January 11, 1913, 1,536. One plague-infected rat was found.

Case of Leprosy on Vessel.

The steamship Siberia arrived January 15 at Honolulu from San Francisco, Cal., with a case of leprosy on board in the person of a Japanese steerage passenger. The patient went to California from Japan about six years ago, and during the greater part of his residence in California lived at Monterey and was engaged in fishing. The disease is of the tubercular form with marked infiltration of the forehead, cheeks, nose, and lobes of ears. The patient was in transit to Japan.

PHILIPPINE ISLANDS.

Plague in Manila.

Passed Asst. Surg. Heiser, chief quarantine officer and director of health for the Philippine Islands, reports the occurrence of plague in Manila as follows: Week ended November 30, 1912, 3 cases with 3 deaths; week ended December 7, 1912, 2 cases with 1 death; week ended December 14, 1912, 2 cases with 1 death.

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PORTO RICO.

Plague Situation.

Passed Asst. Surg. Creel reports:

RATS EXAMINED JAN. 11 TO 18, 1913.

Places.	Rats examined.	Rats found infected.
All Porto Rico	1,959	***********
San Juan	·100 34	
Santurce	144	

The last case of plague in man occurred in San Juan September 12, 1912; the last plague-infected rat was found at Caguas December 19, 1912.

FOREIGN REPORTS.

BRAZIL.

Bahia-Yellow Fever.

According to information received February 3, there were reported at Bahia during the 10 days preceding that date 4 cases of yellow fever with 1 death.

CUBA.

Habana-Transmissible Diseases.

JAN. 10 TO 20, 1913.

Diseases.	New cases.	Deaths.	Remain- ing under treat- ment.
æprosy .	1	2	246
falaria.	12	1	40
Diphtheria	32 16	2	24
carlet fever.	12		11
Paratyphoid	2	*******	

JAPAN.

Cholera Epidemic Terminated.

Surg. Irwin at Yokohama reports January 6: No case of cholera has been reported in Yokohama since December 18 and none in the Empire since December 28, 1912. The epidemic may therefore be considered at an end.

MEXICO.

San Juan Bautista-Yellow Fever Epidemic Terminated.

According to information dated January 12, the yellow fever epidemic at San Juan Bautista, State of Tabasco, has been declared by the board of health to be extinct. No case of the disease has been reported in the State since November, 1912.

Yellow fever was reported present at San Juan from May 4 to November 3, 1912, with a total of 58 cases and 25 deaths.

RUSSIA.

Morbidity Reports for the Year 1909.

In Russia physicians and others practicing medicine are required to keep a list of the cases treated by them, and at the end of the year to forward the list, or a transcript thereof, to the district medical department. These are then forwarded to the provincial or Government authorities by whom the compiled reports are in turn forwarded to the National Government at St. Petersburg, and there compiled for all Russia.

Acting Asst. Surg. De Forest has forwarded a statement of the morbidity returns for the year 1909, as published in the Russian Official Yearbook of 1911. Dr. De Forest states that the tabulation includes the reports of the hospitals and practicing physicians, and both the urban and rural populations; that the system includes all parts of the Empire, but that naturally the difficulties accompanying the practice of medicine in certain of the distant and outlying Provinces are such that the figures for them must necessarily be incomplete.

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Volinsk	1,	10.	00	12,367	00	34	7,	14.	4			
Varonesch	+	11,	20,	6,894	16,	38	7,	18,	10,		********	1
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Orloff	65	-1	8	6, 238	10	19	11	91	10			
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Perm	63	90	20	10, 729	17	145	60	7	12	191	48	
Podolsk	87	90	12	9,582	-	*	m	25	13	*******		
Poltava	3,83	16	17	13,341	15	=======================================	0	16	14			
skov	-	CAL		2,588	-	33:		00 0				
Кјаѕал	3,30		***	8,390	30	45		0	200			
Samara	2,80	11	36	20,398	10	163		ÇD 9	12	1 096	707	
St. retersburg	60'6	200	-	80,001 8,046	AT C	100	9		7.5	4,	60	
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RUSSIAN MOBIDITY REPORTS FOR THE YEAR 1909-Continued.

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462 474 249	15,015 10,462 280 1,474 1,993 4,249	1, 15,
005 479, 359 2, 775, 954	103, 624 325, 005	403,624
1,975		2,361
530 964 2,754 680 327 1,497	669 1,530 270 680	270
3,996		1,550
1,126		838
1,369		1,109
393 13,358 27,172	11,317 17,393	11,317
2,321		553 712 99 28
453 402 1,940	91 453	62
3,721		21,051
1,141		

1,928 227 744	33,304	2,843 2,320 1,802	3,082 7,992	21,709	1,111 15 175 1,575 1,575 1,953 1,953 1,056	6,673
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125	212	92 159 158	28 28 29 28	669	w w-1-044	8,702
2,456 570 2,071	23,861	1,310 6,400 3,663 3,083	2,539 1,188 9,450 323	27,984	1,638 818 327 469 749 331 1,633 580	6,839
25 ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ±	12,851	1,578 6,217 696 1,956	1,465 2,700 8,772	23,455	4,224 168 168 68 878 717 428 3,022 270 231	10,226
324 157 3	6,051	145.352	2,730 736	4,185	1,347 162 116 116 34 378 130 21	2,192
8,946 2,058 2,626	55,357	4, 995 14, 710 13, 287 36, 435	12,563 15,781 24,490 2,739	125,983	15,994 1,006 2,622 6,725 3,615 1,926 1,528	3,024,207
872 686	11,389	591 2,598 4,234	1,103 4,419 5,396	22,559	2, 615 95 201 342 902 658 1, 658 551 704	533,791
306 304 346	19,975	813 1,871 819 7,220	889 1,822 2,334 724	16,396	1,216 245 137 137 464 814 140 140 201	3,843
239	36,320	25.046 2.046 2.046	532 5 904 1,233	5,336	1,716 117 88 291 82 324 2,277 195 38	5,125
1,296	17,115	1,340 1,178 1,509	216 1,158 1,785	7,796	579 410 88 1122 113 220 677 677	2,297
343 381 1,051	12,458	28. 128. 1,188	378 8 670 1,949	4,719	281 281 281 317 317 488 617	3,269
Tiffis. Black Sea coast. Erivan.	Total	SIBERIA. Amur Enisei Zabalkal. Irkutsk	Primor Sachalin Tobolsk Tomsk Jakutsk	Total	Akmolin Transkaspian Samarkand Semipalatin Semirechin Sir-Darin Turkestan Turkestan	Total for Russian Empire
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RUSSIAN MORBIDITY REPORTS FOR THE YEAR 1909-Continued.

Miscellaneous.		dental nations. dis- eases.		20,	147,	5,3	1,730 75,351	166,	125,	8	131,	102,	5,3	42,	81,	10,5	21,	116,	133,	65	35	88	121	112
Miscell	Noninfectious diseases.	Trau- matic af- fections.		177	898	946	101, 487	535	828	109	108	669	213	381	202	911	534	762	644	234	125	819	859	992
	Tra-			161	13,961	35, 430	3,998	13,775	51,276	2,371	5,413	34,609	18,900	14,275	13,873	18,465	9,278	15,969	7,556	4,832	690	4,935	9,840	13, 171
	Scables.			16,892	37,154	50,907	39, 693	80,408	420, 460	10,094	64,915	172,021	36, 158	5,534	83,773	142,000	4,065	100 530	84,094	59,850	25, 793	24,077	55,304	270,893
	Malaria.			953	75,985	2,596	6,002	14,149	48,086	7,318	143, 197	81,932	30 938	986	13, 729	85.213	781	18,719	36,842	34,017	3,643	39, 457	34.647	48,307
	Gonor-			1,239	9,112	2,178	3,659	4.077	7,889	1,939	9.920	5, 104	13, 957	1,239	3,172	3.340	8, 457	3,834	30,854	8, 159	2, 134	2,579	2,233	14,291
	Soft chan-			184	1,733	722	607	1,272	1,474	545	2.643	1,589	4 545	250	604	824	3,382	628	15, 167	2,498	120	628	321	1,856
	Syphilis.			2,026	9,488	16,623	9,604	6, 168	21,401	2,325	12, 906	13,588	99 151	1,293	18,243	31.847	8, 424	5,605	47.331	18,847	6.291	5,851	62,059	18,119
	Tuber-			976	13,436	9,757	8,896	18, 101	15,326	6,810	10.535	11,564	97,636	4,870	8,577	7.467	10,438	13,082	39,747	7,411	0, 151	2,600	6,219	16,969
	Croup- ous pneu-	monia.		-	, 0,	4,1,	5,203	Ξ,	16,	10	41	10	500	*	ø.	- 4	4	10	24.	4	•	010	900	12
	Scurvy.			-			596			_		_	-							_	-	-	_	_
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	Septi- cemia and	pyemia					191						_						-	_	_			
	Ery- sipelas.			425		-							_		-		-	-			-			_
	Paro-			644	3,197	1,248	3,877	2,536	6,832	880	11, 190	3,650	2,112	879	2,226	5.736	1,300	2,414	8.587	2,454	1,948	1,252	5,802	6,769
	Governments and Provinces,		EUROPEAN RUSSIA.	Arkangel.	Bessarabia	vilna. Vitebsk	Vladimir	Volinsk	varonesch	Grodno	Don-Kossack district. Ekatermoslov	Kasan	Kaluga	Kovno	Kostroma	Kursk	Livland	Minsk	Moscow	Nihje Gorodsk	Novogorodsk.	Orenburg.	Orlon	Perm

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Pskor Rjasan Samara. Samara. Saratov Simbirsk Smolensk Tabris. Tabris. Tuda. Oharkov.	Total	POLISH PROVINCES.	Warsaw Kalisch Kelitzka Lomschin Lublin Petrokov Piotzka Radom Swalki	Total.	CAUCASUS.	Bakinsk Batum Dagestan Elesawetpol Karsk Kurban Kutask Kurban Trutsk Trifits Black Sea coast	Total
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16, 434 1,586 17,086 110, 984 11,097 11,097 11,097 11,097 11,098	731,215		10,986 1,489 1,524 439 1,052 5,592 1,052 1,052 1,052 1,052	23,099		5,547 140 788 1,280 16,473 16,473 1,611 1,757 1,	45,478
57, 139 57, 139 91, 721 178, 877 98, 880 68, 880 51, 996 87, 721 71, 974 1179, 987 114, 992 11, 890 62, 667	4,565,572		42, 336 650 650 75, 686 75, 686 75, 686 75, 75, 686 71, 285 716	119,863		65,434 3,114 9,575 18,684 121,239 19,906 39,520 27,201 25,055 9,650 13,746	347,956
2, 387 1, 787 1, 797 1, 793 1, 708 1, 774 1, 776 1, 766 1,	101,664		2,818 238 238 87 536 864 127 1111	5,132		23.5 23.5 26.6 26.6 26.6 344 344 36.0 374 376 376 376 376 376 376 376 376 376 376	1,199
46,656 175,480 129,176 106,823 106,823 106,823 107,401 153,385 213,858 213,858 83,772 98,772 98,772 142,118 142,118 145,466 125,466 8,845	4,951,919		81,227 88,664 88,664 92,761 89,626 82,626 84,687 83,468 83,468	407,502		27, 202 7, 247 1, 247 12, 228 14, 099 11, 244 11, 244 6, 817 83, 990 6, 191 23, 668	409,986

RUSSIAN MORBIDITY REPORTS FOR THE YEAR 1909-Continued.

us.	Number	of vacci- nations.		5,211	33,360	24,001	58,670	122, 245 9, 055	332,684		38,873	25,865	2,2	42,796	39,468	43,80	337,600	6.439.696
Miscellaneous.	tions es.	Mental dis- eases.		168 168	533	184	451	1,507	3,628		253	10	84.5	180	15		299	112.290
Mis	Noninfectious diseases.	Trau- matic af- fections.		31,069	22, 111 50, 972	24,147	58, 497	47,007	249,372		22, 470	7,480	14,265	19,360	8,472	17,442	113,822	844 906 5.396.585 112.290
	Tra-			5,692	3,949	1,400	5, 233	11,406	32,171		4,313	486	1,735	501	1,113	593	12,943	844.906
	Scabies.			3,484	5,351	6,657	41, 160	1,688	160,529	-	33,396	2,310	12,048	15, 192	10,976	10, 584	94,159	4 997 996
	Malaria.			2,635	6,866	4,001	7,428	20,618	65,073		14,534	25,365	3, 123	46,922	19,638	36,301	206, 597	422 154 650 562 1 100 146 138 096 412 196 2 555 215 4 207 996
	Gonor-			1,026 2,776	3,537	2,966	3,677	6,268	27,172		3,630	572	1,013	1,968	977	1,786	13,971	112 196
	Soft chan-			808	2,924	869	724	1,243	7,586		916	131	130	465	282	481	3,402	136 096
	Syphilis.			1,095	3,578	3,857	8,907	14,513	46,143		8,056	2,330	2,528	9,064	3,316	6,184	40,677	1 100 146
-	Tuber-			2,044	4,866	1,384	3,872	4,215	21,559		2,182	588	269	1,063	106	286	998'9	0 KO K99
	Croup- ous pneu-	monia.		2,182	3,346	1,240	3.088	2,332	14,523		1,470	161	371	624	654	303	4,665	120 154
	Scurvy.			340	1,119	848	582	252	4,970		508	61	31	548	514	191	2,423	41 960
	Acute articu- lar	matism.		4,265	3,494	3,135	7,652	7,742	31,396		4,922	366	1,997	2,139	1,587	1,149	15,236	205 490
		pyemia		26		35	:	105	367		92	11	9 9	191	14	19	163	91 115
	Ery-			276	981	525	819	1,121	4,798		549	359	988	641	308	182	3,502	000 000
	Paro- titis.			1,108	1,022	701	848	2, 187	6,899		861	249	153	179		316	3,841	190 940
	Governments and Provinces.		SIBERIA.	Amur	Zabaikal	ka	Sakhalin. Tobolsk		Total	MIDDLE ASIA.	Akmolin	Samarkand	Semipalatin	Sir-Darin		Fergana	Total	Total for Russian Em-

MOVEMENTS OF INFECTED VESSELS.

Cholera.

Bosnian.—At Odessa, Russia, November 18, 1912, from London via Constantinople, 2 cases, with 1 death.

Plague.

Bellailsa.—At Hamburg, Germany, September 2 to 5, 1912, from Rosario July 2, via Cape Verde Islands, 2 cases in crew. River Tyne, September 28, 1912, from Hamburg, 1 case in crew.

Yellow Fever.

Puebla.—At Laguna del Carmen, Mexico, September 14, 1912, from Vera Cruz and other Mexican ports, 1 case on board.

CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX. Reports Received During Week Ended Feb. 7, 1913.

CHOLERA.

	CHO	BRA.		
Places.	Date.	Cases.	Deaths.	Remarks.
Dutch East Indies:				
Borneo	Oct. 9-26	4	3	
	Oct. 8-Nov. 1		1	
Java-		1		
	Oct. 6-Nov. 2	154	73	
	Oct. 18-Nov. 7		71	
	Oct. 16-25		î	
Turkey in Asia:	000, 10 20	-		
Adana—				
	Nov. 24-Dec. 2		1	
	Nov. 24-Dec. 2			
Aleppo-	4-	3	3	
Alexandretta	do	3	2	
	do	3	2	
Angora—	N 01 D 11	- 00		
	Nov. 24-Dec. 11	29	23	
	Nov. 24-Dec. 2		1	
Beirut—				
	Dec. 3-11		15	
	Dec. 13-22			Present.
	Nov. 24-Dec. 11		22	
Castamoni	Nov. 24-Dec. 2	4	4	
Hediaz-				
Medina	Dec. 3-11		6	
	do		3,007	
Ismidt	Nov. 24-Dec. 2		1	
	Dec. 3-11		4	
	Nov. 24-Dec. 2		i	
	do		î	
	Dec. 15–21	16	16	Chwaka district, Dec. 2-15, 16
Shirt Dat	Dec. 10-21	10	10	cases not previously reported.
1	YELLOW	FEVER.	*	
Brazil: Bahia	Jan. 24-Feb. 3	4	1	

CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued. Reports Received During Week Ended Feb. 7, 1913—Continued.

PLAGUE.

Places.	Date.	Cases.	Deaths.	Remarks.
Afghanistan: Tchehel-Bagdareh	Sept. 1-30			And vicinity 100 deaths daily Present to Oct. 29.
Dutch East Indies: Java—				
Kediri	Nov. 3-16	30	30	
Madioen	Oct. 27-Nov. 16	50	48	
Pasoeroean Residency	do	112	118	
Surabaya	do	7	7	
Egypt				Total Jan. 1-Dec. 31: Cases, 884; deaths, 441. Dec. 26-31; Cases, 9; deaths, 8.
Cairo	Dec. 30	1	1	o, deaths, o.
Port Said	Dec. 29.	î	î	
Menouf	Dec. 27-31	6	7 1	
Minieh Philippine Islands:	Dec. 27-29	1	i	
Manila	Nov. 24-Dec. 14	7	5	

SMALLPOX.

Canada: Montreal	Jan. 19-25	12			
Ottawa	Jan. 22-28				

Quebec	Jan. 19-25	5	********		
St. Johns	do	5	********		
Chile:					
Punta Arenas	Nov. 1-30	1			
Dutch East Indies:					
Java-					
Samarang	Oct. 4-24	57	23		
Egypt:					
Cairo	Dec. 17-31		2		
Port Said			1		
Suez	Dec 28-Jan 3	1	i		
France:	Dec. 25 out		1 1		
Marseille	Dec. 1-31		1		
Nantes.	Jan. 5-18	2			
Paris	do	10			
		10	*******		
Germany: Hamburg	Jan. 10-16	1	1		
Hamburg	Jan. 10-16	1	********		
Gibraltar	Jan 13-19	1	********		
India:					
Karachi	Dec. 15-21	1			
Mexico:					
Mexico	Dec. 22-Jan. 4	12	3		
Portugal:					
Lisbon	Jan. 5-11	4			
Russia:					
Moscow	Dec. 15-28	2	1		
St. Petersburg	Dec. 22-28		5		
Spain:	200.22 20				
Cadiz	Dec. 1-31		3		
Turkev in Asia:	Dot. 1-31	*******			
Beirut	Dec. 29-Jan. 4	15			
	Dec. 29-Jan. 4	10	*******		
Purkey in Europe:	Dec. 29-Jan. 11		26		
Constantinople	Dec. 29-Jan. 11		26		

Reports Received from Dec. 27, 1912, to Jan. 31, 1913.

CHOLERA.

Places	Date.	Cases.	Deaths.	Remarks.	
Bulgaria: Eski Saghra Sofia China: Foochow.	Dec. 9 Nov. 21-Dec. 16 Nov. 20-Dec. 2		1	Isolated cases.	

CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued. Reports Received from Dec. 27, 1912, to Jan. 31, 1913—Continued.

CHOLERA-Continued.

Places.	Date.	Cases.	Deaths.	Remarks.
Dutch East Indies:				
Borneo— Pontrank Samarinda	Oct. 6	1		
Java-			1	
Batavia	Nov. 9-23	32		One case among Europeans.
Madioen	Sept. 15-Oct. 5 Oct. 7-12	35		
Megalang	Sept. 20-26	2		
Pasoeroean Residency. Samarang.	July 19-Oct. 17	436		
Sumatra-Jambi	Sept. 18-24			
India:				1
Bombay	Nov. 17-Dec. 28	117	81	1
Calcutta Cochin	Oot 10 Nov 0	6		1
Madras	Nov. 24-Dec. 28	20		1
Negapatam	Nov. 11-16	9	9	1
Rangoon	NOV. 1-30	2		
Indo-China: Saigon	Aug. 20-Oct. 27	42	38	Total Inte 10 Dec 90, Come 9.71
Japan	Dec. 2	1		Total July 10-Dec. 20: Cases, 2,71
Chiba Ken	Nov. 23-Dec. 17			
Chiba Ken Fukushima Ken	Dec. 5	1		
Hiardo Islands	Sept. 15-Dec. 1	30		
Hioga Ken Hiroshima Ken	Nov. 27-Dec. 19	22	*******	.]
Ibaraki Ken	Nov. 23	1 2		
Iwate Ken	Dec. 6	î	********	
Iwate Ken Kanagawa Ken	1/00. 10			Total Nov. 23-Dec. 20: Cases, 5
Yokohama	Nov. 24-Dec. 8	18		Sept. 25-Dec. 7: 9 cases from
				vessels.
Kochi Ken Minami Tokaki gun	Nov. 28-Dec. 4	3 40	********	
Minami Tokaki gun	Sept. 15-Dec. 2	40	*******	Nagasaki Ken and outleing i
Nagasaki Ken Nagasaki city	Sept. 15-Dec. 2	10	4	Nagasaki Ken and outlying i lands Sept. 15-Dec. 2: Cas 188, deaths 134, including pr vious reports.
Osaka Fu	Nov. 23-Dec. 3	14		
Saga Ken	do	5		
Saseho	Sept. 15-Dec. 2	7		i de la companya del companya de la companya del companya de la co
Shidzuoka Ken	Dec. 3-20	8	********	
Taiwan (Formosa)	*********		*******	Total Nov. 3-23: Cases, 48; death
Malmahima Wan	Cont 15 Dec 1	65		42. Not previously reported.
Tokushima Ken	Sept. 15-Dec. 1 Nov. 23-Dec. 20			Not previously reported.
Tokyo Fu				Oct. 2-Dec. 7: Cases, 273; and i
				vicinity, 342.
Wakamatsu Ken	Nov. 26	1		
Russia: Odessa	******	******		Nov. 18-20: 1 case from s. Bosnian from Constantinople Confined in the quarantin barracks.
iam:	Oct. 13-Dec. 7		4	
Bangkoktraits Settlements-Singapore.		2	2	
urkey in Asia			**********	Total, Nov. 17-23: Cases, 160
				deaths, 218.
Adana-Adana	Nov. 17-23	2	1	
Alepho-Alexandretta	d0	2	1	
AngoraBrusa.	do	24	24 16	
Castomoni		2	10	
Diarbekir		8	2	
Hediaz-		-		
Jedda	Nov. 25-Dec. 14	395	393	Among returning pligrims.
Jedda	Nov. 17-23	111	172	
Ismidt	do	3	1	
Mosul	do	2		
Smyrnaurkey in Europe:		-		
Constantinople	Dec. 3-Jan. 6	1,542	750	Total Nov. 5-Jan. 6: Cases 2,456 deaths 1,208.
				deaths 1,208.
anzibar	Nov. 8-Dec. 15	115	114	From Mwera, Chwaka, and Moko toni. Chwaka district, Oct. 4– Dec. 28, 329 cases not included in previous reports. Nov. 18—20, 1 fetal case on 8.8
t sea			********	Nov. 18—20, 1 fatal case on 8. 8 Bosnian, en route from Con stantinople to Odessa.

CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX-Continued. Reports Received from Dec. 27, 1912, to Jan. 31, 1913-Continued.

YELLOW FEVER.

Nov. 15-30 Nov. 1-30dodododo	1 2	1	
Nov. 1-30dododo		1	
Nov. 1-30dododo	2		
do		1	
do	12	6	1
	2	2	
do	1		
Dec. 7	******	********	Present.
N	_		
Nov. 1-30	7	1	In September 2 deaths and it October 1 death not previously reported. In December no case and no death.
PLA	GUE.		
Man. 10.00		-	
Nov. 16-30			
Nov. 3-Jan. 2	9	4	
Non 16 Oct 01	0		

Oct. 1-31		10	Free Nov. 18.
Nov. 16-Dec. 8			F100 NOV. 10.
Oct 22-28	3		
000. 22 20			
Jan. 16			Present.
Dec. 14.			Present along the railway, be-
			tween Harbin and Chang-Chun.
Nov. 18-Dec. 15		2	Present along the railway, be tween Harbin and Chang-Chun. Dec. 18, present in vicinity of the French settlement.
			French settlement.
Oct. 6-26			
do		16	
do			
do	3	3	
Non 1 20	9		
Nov. 1-30			
do	100	32	Total Nov. 23-Dec. 25: Cases, 22;
		*******	doothe 7 Jan 1 Dec 25
			deaths, 7. Jan. 1-Dec. 25: Cases, 875; deaths, 433.
Nov 22-Dec 19	2	1	Cases, 670, deaths, 400.
Nov 20 Dec 12			
Nov. 23-Dec. 17		-	
Dec. 21-25		1	
Oct. 1-Dec. 21			
Nov. 28-Dec. 26	6	3	
Nov. 17-Dec. 28	31	28	
Nov. 9-Dec. 14			
Nov. 19-23	2		
Oct. 1-Nov. 30	68	68	
	******		Total Oct. 27-Nov. 30 Cases,
0 4 0 3 3			12,333; deaths, 9,908.
Oct. 27-Nov. 30		0 050	
do		3,330	
do			
do			
do	9 970		
do	495	371	
do			
do		193	
do		701	
do	613	523	
do	57		
do	1,905	1,895	
Aug. 20-Oct. 27	55	35	
Oct. 11-Nov. 7	96	60	
Nov. 1. Oct. 29.	3 .		4 43 1914
ATOY . I	2	********	Among the military. Sept. 17-Oct. 17, 8 cases, with 5
	Nov. 16-30 Nov. 3-Jan. 2 Nov. 16-Oct. 21 do Oct. 1-31 Nov. 16-Dec. 8 Oct. 22-28 Jan. 16 Dec. 14 Nov. 18-Dec. 15 Oct. 6-26 do do do do Nov. 1-30 do Nov. 22-Dec. 19 Nov. 23-Dec. 12 Nov. 23-Dec. 17 Dec. 21-25 Oct. 1-Dec. 21	Oct. 1-31 12 Nov. 16-Dec. 8 2 Oct. 22-28 3 Jan. 16 Dec. 14. Nov. 18-Dec. 15. Oct. 6-26 75 do. 16 do. 16 do. 18 do. 3 Nov. 1-30 3 do. 138 Nov. 1-30 2 Nov. 22-Dec. 19 2 Nov. 23-Dec. 17 3 Dec. 21-25 1 Oct. 1-Dec. 21 7 Nov. 28-Dec. 26 6 Nov. 17-Dec. 28 31 Nov. 19-23 2 Oct. 1-Nov. 30 68 Oct. 27-Nov. 30 31 do. 4,475 do. 30 do. 4,475 do. 613 do. 57	Nov. 16-30. 2 Nov. 3-Jan. 2. 9 4 Nov. 16-Oct. 21 2 6 6 12 13 14 15 2 16 16 16 16 16 16 16 16 16 16 16 16 132 129 13 138 52 13 138 52 13 14 15 15 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 18 18 19 19 19 13 19 13 19 19 19 19 19 19 19 19 19 19 19 10 19 10

CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

Reports Received from Dec. 27, 1912, to Jan. 31, 1913-Continued.

PLAGUE-Continued.

Places.	Date.	Cases.	Deaths.	Remarks.	
Peru: Departments Arequipa Mollendo Callao Callao Lambayeque	Nov. 17-Dec. 7 Sept. 1-7	7	4	Present.	
Philippine Islands: ManilaRussia:	Nov. 10-16	5	4	170.	
Transbaikal district— Verneudinsk Trans-Caspian Ty. Merv	Oct. 18-28 Dec. 9-21	3 29	3 29	Near Nerchinsk. Pneumonic.	

SMALLPOX.

Abyssinia: Adis Ababa	Nov. 24-Dec. 21			Present.
Algeria:		1	1	
Departments-	1			
Algiers	Oct. 1-31	. 11		
Constantine			**********	
Oran		118		7
	00	118	*******	
Austria-Hungary:				
Galicia		. 3	********	
Trieste	Dec. 8-21	. 4		
Brazil:				
Para	do	. 2		
Pernambuco			65	
Rio de Janeiro			5	
	Nov. 3-Jan. 2	17		
British East Africa: Mombasa	Dec. 1-21	. 5	********	
Canada:				
Ontario-				
Ottawa		. 13		
Toronto	Dec. 1-21	5		
Quebec-		1		
Montreal	Dec. 15-Jan. 18	30	1	
Quebec				
St. Johns	Jan. 12-18	4		
Chile: Punta Arenas	Oct. 31	2		Oct. 31, 1 case in vicinity.
China:			1	
Amoy	Jan. 16			Present.
Chungking				Do.
Hongkong				170.
	Nov. 24-Dec. 14	4	2	D-
Nanking				Do.
Shanghai	Nov. 18-Dec. 22	13		Deaths among natives.
Tientsin	Nov. 17-Dec. 14		2	
Dutch East Indies:				
Java -	1			
Batavia	Nov. 9-Dec. 7	14	1	
Egypt:	2001. 3- Dec. 1	1.4		
	D 0.01	1 -		
Alexandria	Dec. 9-31	2	********	
Cairo	Nov. 12-Dec. 16		1	
Port Said	Dec. 3-9	1		
France:				
Marseille	Nov. 1-30		1	
Paris		7		
			********	Watal New 24 20 5 anne not
Germany		******	********	Total: Nov. 24-30, 5 cases not
				included in report, page 2231, vol. xxvii; Dec. 1-Jan. 11, 15
				vol. xxvii; Dec. 1-Jan. 11, 15
				cases.
Gibraltar	Dec. 9-15	1		
Great Britain; Liverpool	Jan. 1-4	î		
ndia:				
Bombay	Nov. 17-Dec. 28	11		
	Nov. 17-Dec. 28	11		
Calcutta		******	11	
Karachi	Dec. 1-7	1	********	
Madras	Dec. 1-28	4	3	
Rangoon	Oct. 1-Nov. 30	11	3	
ndo-China: Saigon			2	
taly: Palermo		2	-	
	100. 10-21	2	********	Total Jan. 1-Oct. 31: Cases 13.
apan				TOTAL JAM. 1-OCL 31: Cases 13.

CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued. Reports Received from Dec. 27, 1912, to Jan. 31, 1913—Continued.

SMALLPOX-Continued.

Places.	Date.	Cases.	Deaths.	Remarks.	
Mexico:	Dec. 9-Jan. 12		4		
Chihuahua Durango	Dec. 9-Jan. 5 Dec. 1-31		15		
Mazatlan	Jan. 1-7				
Mexico	Nov. 17-Dec. 7		12		
Salina Cruz	Nov. 17-23 Sept. 15-21				
San Luis Potosi Netherlands: Rotterdam	Dec. 22-28		1		
Peru:	1700. 22-20				
Callao	Sept. 1-14			Present.	
Lima	do			Do.	
Mollendo	Nov. 24-Dec. 7	5	1		
Salaverry	Dec. 4-11				
Portugal: Lisbon	Dec. 1-28	21		m . 10 . 101 C	
Roumania			*******	Total Oct. 1-31: Cases	
Russia:					
Libau	Dec. 16-Jan. 4		1		
Moseow	Dec. 8-14				
Odessa	Nov. 17-Dec. 14 Nov. 24-Dec. 21	- 86	5		
St. Petersburg	Sept. 22-Oct. 5	5			
Warsaw	Dec. 22-28	2			
Siam: Bangkok	Nov. 10-Dec. 7		3		
Siberia: Vladivostok	Oct. 28-Dec. 28	4	3		
Spain:	000, 20 2 00, 20,111				
Almeria	Dec. 1-31		40		
Barcelona	Dec. 1-28		64		
Cadiz	Nov. 1-30		4		
Madrid	Nov. 1-Dec. 31		34		
Seville	Dec. 1-31		27		
Valencia	Nov. 14-Jan. 4				
straits Settlements: Singapore.	Nov. 24-30		1		
weden: Stockholm	Oct. 8-21	3			
Switzerland:					
Cantons—	Dec. 15-21	1			
Aargau	Nov. 14-Dec. 21	8	*********		
Basel	Dec. 1-28	9			
Grisons	Dec. 8-14	1	2		
Turkey in Asia: Beardt	Dec. 1-28		43		
tinople.	1/00.1-20		-		
anzibar	Nov. 8-14		1		

SANITARY LEGISLATION.

STATE LAWS AND REGULATIONS PERTAINING TO PUBLIC HEALTH.

IOWA.

Communicable Diseases—Quarantine and Disinfection (Regulations State Board of Health Adopted July 21, 1911).

CHAPTER I.

QUARANTINE REGULATIONS.

RULE I. The following diseases are subject to quarantine: Scarlet fever (including scarletina and scarlet rash), diphtheria (including membranous croup), smallpox, epidemic cerebrospinal meningitis, anterior poliomyelitis, cholera, leprosy, and bubonic plague.

RULE II. Quarantine shall be established by serving a written notice signed by the mayor of the city or town, or the clerk of the township, upon the head of the family or occupants of the premises and by posting in a conspicuous place upon each building, hall, lodging room, or place wherein exists or is suspected to exist a communicable disease, the following described sign: A yellow card not less than 12 inches square, having printed thereon in large letters the word "Quarantine," followed by the name of the disease and the words: "Notice! No person shall be permitted to enter or leave these premises except as provided by the rules and regulations of the State board of health." (Signed)————, Mayor or Township Clerk.

RULE III. All cases of diseases listed in Rule I shall be immediately reported to the mayor of the city or town, or clerk of the township, by the physician, if any be in attendance, otherwise by the householder of the premises wherein such disease exists.

In every case a written notice shall also be sent within 24 hours to the mayor of the city or town or to the township clerk.

Rule IV. Section 1. It shall be the duty of the mayor or township clerk, upon receiving notice of the existence of any c se of scarlet fever (including scarletina or scarlet rash), diphtheria (including membranous croup), smallpox, epidemic cerebrospinal meningitis, anterior poliomyelitis, cholera, leprosy, or bubonic plague, to forthwith quarantine the premises as provided for in rule 2 of this chapter, and to take such other measures as may be necess ry and proper for the restriction and suppression of such disease.

Sec. 2. It shall be the duty of the mayor of every city or town and the clerk of every township to report to the secretary of the State board of health, within 24 hours after being notified thereof, every case of quarantinable disease reported to him; and upon receiving notice of the subsidence of such disease to likewise immediately report that fact, together with the mode of termination, whether by death or recovery. All reports provided for in this regulation shall be made upon postal cards in accordance with the following forms adopted by the State board of health.

22

REPORT OF QUARANTINABLE DISEASES.

DEPARTMENT OF PUBLIC HEALTH.

		of Hear	eases were reported to the	is office t	o-day:
For quarantine.	Number.	Total for month to date.	For quarantine.	Number.	Total fo month to date.
Scarlet Fever. Diphtheria Smallpox. Cerebrospinal meningitis. Anterior poliomyelitis. Cholera.			Leprosy Bubonic plague		
Total			Total		
County	DEPAR		OF QUARANTINE.		
The following cases of	infectiou	ıs diseas	Date LLTH: es, previously reported t		
The following cases of	infectiou	ıs diseas	LTH:		om thi
The following cases of office, have terminated as Scarlet fever Diphtheria Smallpox Cerebrospinal meningitis. Anterior poliomyelitis. Cholera. Leprosy.	infectiou follows:	ıs diseas	es, previously reported t	o you fi	
The following cases of office, have terminated as Scarlet fever Diphtheria Smallpox Cerebrospinal meningitis. Anterior poliomyelitis. Cholera. Leprosy.	infectious follows:	is diseas	es, previously reported t	o you fi	om thi
The following cases of office, have terminated as Scarlet fever	infectious follows:	is diseas	es, previously reported t	Recovery.	Deaths.
Scarlet fever	infectious follows:	is diseas	es, previously reported t	Recovery.	Deaths.
The following cases of office, have terminated as office, have terminated as Scarlet fever	infectious follows:	is diseas	es, previously reported t	Recovery.	Deaths. Deaths.
The following cases of office, have terminated as office, have terminated as Scarlet fever	infectious follows:	is diseas	ave been properly disinfec	Recovery.	Deaths. Deaths. Clerk.

Sec. 4. Sanitary police officers shall visit all quarantined premises within their jurisdiction at least once in every 24 hours to see that quarantine is properly observed, and shall make daily report thereof to the mayor or clerk of the township.

Rule V. If any person shall willfully or maliciously, or without written authority remove or deface or cause to be removed or defaced any quarantine sign or signal of danger, officially posted upon the quarantined premises, as provided by the regulations of the State board of health, he shall be deemed to have violated the regulations of the State board of health, and shall be prosecuted accordingly.

Rule VI.—Section 1. Upon the termination of any of the diseases named in Rule I, the attending physician or health officer shall report the fact in writing to the mayor or township clerk, who shall order the infected persons and infected premises, together with all persons, furniture, bedding, clothing and all other articles therein contained, to be disinfected according to the regulations of the State board of health and under the direction of the local board of health, which shall direct the attending physician to superintend or perform the work. In case there be no attending physician, or in case the attending physician refuses to perform the work or fails to perform it according to the regulations of the State board of health, it shall be the duty of the local board of health to provide some other suitable person to perform such work.

Sec. 2. Any undertaker or person in charge of the funeral of any person, dying from tuberculosis, shall within 48 hours after the death of such person report to the mayor of the city or town, or to the township clerk, the name and residence of the deceased person, together with the cause of death. Upon receipt of the notice as herein provided, the mayor of the city or town or clerk of the township shall cause said premises to be disinfected in accordance with the regulations of the State board of

health, and the law as enacted by the thirty-fourth general assembly.

Sec. 3. All bills and expenses incurred in carrying out the rules and regulations of the State board of health, and for all fumigating and disinfecting, must be provided for according to chapter 156, acts of the thirty-third general assembly and as amended

by the thirty-fourth general assembly.

Rule VII. Whenever any premises are quarantined, special attention must be given to all pet animals kept thereon. Cats and dogs shall be excluded from the house and prevented from running at large. Before the quarantine is raised all such animals shall be thoroughly washed in a disinfecting solution. Special precautions must be taken to destroy all mice and rats. When flies are present, all doors and windows shall be securely screened and fresh fly paper placed in each room daily.

RULE VIII. Quarantine shall be released only upon order of the mayor or township clerk after receipt of a written report from the attending physician or health officer stating that the disease has terminated and that the premises and all infected persons have been properly disinfected in strict accordance with Rule VI, Chapter I. This report shall state the number of persons on the premises, the number who have suffered from the disease, their names, ages, when the disease appeared in each case, and how it terminated.

When all regulations pertaining to quarantine and disinfection have been complied with the quarantine shall be released.

Rule IX. No letters or other articles coming from quarantined premises shall under any circumstances be placed in any post office, letter box, or rural delivery. If on account of carelessness or neglect any such infected article shall have been placed in a post office, letter box, or rural delivery, all such letters or articles, together with such other articles as have come in contact therewith, shall be detained and immediately disinfected by the health officer, without unnecessary delay or removal from the custody of the postmaster. This rule is in accordance with the United States postal

RULE X. No person except the attending physician shall be permitted to enter or leave any premises while the same are under quarantine, except as specifically provided for by the regulations of the State board of health and in strict accordance therewith. The secretary or members of the State board of health may enter any premises under quarantine whenever, in their opinion, it is necessary for purposes of investigation or to enforce the regulations of the State board of health.

CHAPTER II.

SPECIAL REGULATIONS.

Rule I. Scarlet fever.—Section 1. Quarantine shall be maintained in scarlet fever until the complete recovery of the patient, including complete desquamation, and this shall be certified to in writing by the attending physician or health officer.

SEC. 2. In case the disease terminates either by death or recovery, quarantine may be released unless there are other children on the premises who have not had the disease, in which case the quarantine shall be maintained for 10 days after the date of death or recovery.

SEC. 3. Quarantine shall not be released in any case until the infected persons and infected premises have been properly disinfected according to Rule VI, Chapter I.

Rule II. Diphtheria.—Section 1. The period of quarantine for diphtheria shall be determined by release cultures whenever possible, and the following rules shall be rigidly observed:

 Each culture for release shall be taken by the attending physician from both nose and throat of the patient.

2. No culture for release shall be taken until 5 days after the disappearance of all membrane or inflammation of the nose or throat.

3. Second and subsequent cultures shall not be taken within 24 hours of the preceding culture.

 All examinations of cultures for release shall be made by a bacteriologist appointed by the director of the State bacteriological laboratory.

Quarantine shall not be released until two consecutive negative cultures are reported by the bacteriologist to the mayor or township clerk.

6. The local health officer may in any case take cultures and send them to the bacteriological laboratory for verification.

Sec. 2. In case the culture method for release is not used, quarantine shall be maintained for 28 days from the beginning of the last case on the premises, provided, however, that antitoxin was administered within the first 24 hours from the initial symptoms and the patient has made a complete recovery, and these facts are certified to in writing by the attending physician or health officer.

Sec. 3. If the disease terminates by death, quarantine may be released unless there are other children on the premises, in which case quarantine must be maintained for 10 days longer. In case the surviving children have been recently protected by immunizing doses of antitoxin and one negative culture has been made from the nose and throat of each, in accordance with the rules for release cultures, the quarantine may be released immediately.

Sec. 4. Quarantine shall not be released in any case until the infected persons and infected premises have been properly disinfected according to Rule VI, Chapter I.

Rule III. Smallpox.—Section 1. Quarantine shall be maintained in smallpox until the complete recovery of the patient and until after complete desquamation, as certified to in writing by the attending physician or health officer.

Sec. 2. In case of the termination of the disease by death, quarantine may be released unless there are persons on the premises who are unprotected from smallpox, either by vaccination or having previously had smallpox, in which case the quarantine shall be continued for 14 days longer.

Sec. 3. Any person who has been vaccinated within three years, or who has had smallpox, may be released from quarantine upon proper disinfection of his person and clothing.

Sec. 4. Quarantine shall not be released in any case until the infected persons and infected premises have been properly disinfected according to Rule VI, Chapter I.

Rule IV.—Vaccination.—Section 1. Vaccination for smallpox is the introduction by scarification of the bovine vaccine virus through the skin.

Sec. 2. In addition the Iowa courts have held that the administration by mouth of a proper preparation of variolinum constitutes a legal method of vaccination.

RULE V. Meningitis.—Section 1. In case of epidemic cerebrospinal meningitis, quarantine shall be maintained until the recovery of the patient from the acute symptoms, and this shall be certified to in writing by the attending physician or health officer.

SEC. 2. In case the disease terminates by death, quarantine may be released after 10 days from date of death.

Sec. 3. Quarantine shall not be released in any case until the infected persons and infected premises have been properly disinfected according to Rule VI, Chapter I.

Rule VI. Infantile paralysis.—Section 1. Quarantine shall be maintained in anterior poliomyelitis (infantile paralysis or epidemic motor paralysis) for a period of 21 days from the beginning of the disease.

SEC. 2. Disinfection of urine, feces, throat, and nasal discharges shall be required in accordance with chapter 3 of the rules and regulations for disinfection.

SEC. 3. When the disease terminates either by death or recovery, quarantine may be released unless there are other persons on the premises who have not had the disease, in which case the quarantine shall be maintained for 10 days after the date of death or recovery.

Sec. 4. Quarantine shall not be released in any case until the infected persons and infected premises have been properly disinfected according to Rule VI, Chapter I.

Rule VII. The breadwinner of the family quarantined for scarlet fever, diphtheria, smallpox, or anterior poliomyelitis may be permitted to pursue his usual avocation in the discretion of the local board of health, but no person from the infected premises shall be permitted to attend any public gathering or school in any capacity or to travel upon any public conveyance. To obtain permission from the local board of health to leave the premises, the breadwinner shall agree not to enter the sick room, and he shall change his clothing upon leaving and entering the infected house, and shall wash his face and hands in a disinfecting solution.

RULE VIII. Cholera.—Section 1. Quarantine shall be maintained in case of cholera until the complete recovery of the infected person, and this shall be certified to in writing by the attending physician or health officer.

Sec. 2. In case the disease terminates by death, quarantine shall be maintained for 14 days from date of death.

Sec. 3. Quarantine shall not be released in any case until the infected persons and infected premises have been properly disinfected according to Rule VI, Chapter I.

RULE IX. Leprosy.—Section 1. All persons affected with leprosy shall be continuously confined upon their home premises. It shall be the duty of the health officer of the local board of health to report to the secretary of the State board of health the name, age, social condition, and residence of all persons affected with this disease within the community over which he has jurisdiction, and the local board shall keep a record of the particulars required herein.

Rule X. Bubonic plague.—Section 1. Quarantine shall be maintained in bubonic plague until complete recovery of the infected person or persons.

Sec. 2. In case the disease terminates by death, quarantine shall be maintained for 14 days from date of death.

Sec. 3. Quarantine shall not be released in any case until the infected persons and infected premises have been properly disinfected according to Rule VI, Chapter I. In addition all pet animals and, in so far as possible, all rats and mice shall be destroyed.

RULE XI. Dairy products.—Section 1. The sale of milk or dairy products from

any quarantined premises is prohibited.

SEC. 2. However, if the dairy and barns are situated a safe distance from the quarantined dwelling, and if no person, utensil, or water from the infected premises comes in contact with such dairy products, the local board of health shall satisfy themselves of these facts and then may allow the said products to leave the premises.

SEC. 3. But such products as have been exposed to infection shall not be sold or

allowed to leave the premises.

Rule XII. Release of healthy persons from quarantine.—Any adult living on premises under quarantine or any child who has previously had the disease for which the quarantine has been established may be released from quarantine, after proper disinfection, by written order of the local board of health, but persons so released shall not reenter the premises until the quarantine is released. (In quarantine for smallpox, no unvaccinated person shall be released before the end of the quarantine

period.)

Rule XIII. All persons suffering from any disease subject to quarantine or residing upon premises infected with any such disease, shall be excluded from the public schools. The superintendent, teacher, or other official in charge of any school shall be held personally responsible for the enforcement of this regulation, and under no circumstances shall such superintendent, teacher, or official allow any person so excluded to reenter such school, except upon the presentation of a written permit, showing that such person has been properly disinfected and regularly released from quarantine. All such permits must be signed by the mayor or township clerk, and by the health officer of the local board of health. This regulation shall also apply to academies, seminaries, and colleges.

RULE XIV. Section 1. No person suffering from tuberculosis shall be permitted to attend any public or private school as a pupil, neither shall any such person be

employed in any school in any capacity.

Sec. 2. Whenever any person shall have reason to believe that this rule is being violated he shall so inform the mayor or township clerk, and it shall then be the duty of the local board of health to investigate the case and exclude said pupil or employee from school unless the board is fully satisfied that said pupil or employee is not tubercular.

Sec. 3. The local board of health shall cause the health officer to procure from the suspected individual a sample of sputum or other discharge and shall forward this to the State bacteriological laboratory for examination, and shall use such other means as are usual and customary to determine the presence or absence of tuberculosis.

Sec. 4. All examinations made by or for the local board of health shall be free of expense to the patient.

MUNICIPAL ORDINANCES, RULES, AND REGULATIONS PERTAINING TO PUBLIC HEALTH.

ALEXANDRIA, VA.

Health Officer, Deputy Health Officer, and Board of Health—Duties of. (Ordinance adopted July 23, 1912.)

Section 1. There shall be in September, 1912, and every two years thereafter, elected by the city council, a health officer, whose term of office shall begin the first day of the following October and who shall be a practicing physician. He shall inspect the city twice a month from April to September, and once a month for the balance of the year, visiting all localities suspected of being unhealthy or exposed to disease. He shall suggest to the board of health such measures as he shall think fit to preserve the health of the city and especially to prevent the introduction and spread of infectious and contagious diseases, and to prevent or regulate the pursuit of callings prejudicial to the public health or comfort. He shall also consider and report upon all such matters as may be referred to him by the board of health, and make monthly reports to the said board of health of his proceedings. He shall receive for his services as such health officer the sum of \$600 per annum, payable in monthly installments on warrants drawn by the auditor, which shall be in lieu of all fees, including fees as registrar of vital statistics.

SEC. 2. The health officer, immediately after his election, or in the interim between the passage of this ordinance and his election, shall appoint a deputy to be known as deputy health officer, who is hereby vested with police authority in the performance of his duties. The duties of the deputy health officer shall be to inspect dairies, live stock, milk, slaughterhouses, meat, fish, fowls, and such other articles of food as the board of health may direct. He is hereby authorized to apply the tuberculin test to live stock in accordance with State and Federal regulations, and shall receive a fee from owners of said stock of not over 50 cents per head, the collection of said fee being permissible in connection with his salary, hereinafter provided, this, however, being applicable only to cases where tests are made to determine the quality of the milk or condition of herd upon owner's application on form prescribed and provided by the board of health. The board of health is hereby authorized to accept the certificate of any properly licensed veterinarian as to the condition of dairies, herd, and cattle when approved by the health officer.

SEC. 3. The deputy health officer shall be a qualified veterinarian, and the health officer shall ascertain to his positive knowledge that the applicant for office of deputy is qualified to perform the duties herein prescribed and submit the name of the appointment to the city council, which shall, as soon as consistent, confirm or nonconfirm the appointment.

SEC. 4. The deputy health officer, in addition to his other duties, shall attend horses of the fire department and all other horses the property of the city, and perform all veterinarian duties in connection therewith and shall receive for his services the sum of \$400 per year, payable in monthly installments on warrant drawn by the auditor, which shall be in lieu of all fees excepting those hereinbefore described.

Sec. 5. The deputy health officer shall report his findings and recommendations to the health officer, who shall be governed accordingly.

SEC. 6. The board of health is hereby empowered to designate an acting deputy health officer when circumstances may warrant, said designation to be effective for a reasonable time or within the judgment of the city council.

SEC. 7. The health officer is hereby vested with police authority in the performance of his duties. He shall require deleterious matter, wherever found, to be removed by the occupant of the premises or by the owner if the premises are unoccupied, and con-

veyed beyond the limits of the city. He may require yards and premises and the street gutters in front of any premises, when he thinks it important to the health of the neighborhood, to be cleaned and limed by the occupant or owner of such premises. Any person failing, after one day's notice, to obey the orders of the health officer, given pursuant to the provisions of this section, shall be fined not less than \$1 nor more than \$20, unless it appears that such person was unable to comply with the orders of the health officer, and each day's violation shall be deemed a separate offense.

Sec. 8. Whenever in the opinion of the board of health it shall be necessary for the public health, to clean, ditch, or lime any particular locality, public alley, or street areas, or to ditch, clean, or lime any common drain across private lots or in alleys, the use of and right of way over which is for the benefit of the real estate abutting thereon, or to remove or abate any nuisance the owner or causer of which can not be apprehended, said board of health may, through the health officer, instruct the city engineer to have the same done.

The city engineer shall report the cost of such work by pay roll on voucher to the auditor as work done by order of the board of health on streets, private lots, or alleys, or nuisances, as the case may be, and the auditor is hereby authorized to issue warrants for payment of same from such appropriations as may be made under section 2, of Chapter XIX of the Code of 1874, as hereinafter amended and reenacted.

SEC. 9. There shall be elected at the same time and in the same manner as the health officer, a physician to the poor, at the salary of \$300 per annum, payable in monthly installments, upon warrants drawn by the auditor, who shall attend the indigent sick of the city and sick of the almshouse, and who shall perform all the duties of the present physicians to the poor.

SEC. 10. It shall be the duty of the members of the police force to take note of and report any and all infractions of the health laws and, where called upon by the health officer, the deputy health officer, or the board of health, to assist in enforcing the same.

BELLEVUE, OHIO.

Garbage—Care and Disposal of. (Regulation Board of Health Adopted March 21, 1912.)

Section 1. It shall be the duty of every resident householder, tenant, hotel keeper, boarding-house keeper, retail dealer, and all parties or persons occupying dwellings within the city of Bellevue, Ohio, to provide or cause to be provided, and at all times to keep or cause to be kept or provided, portable vessels or tanks for holding garbage and offal; said vessels or tanks to be perfectly water-tight, and so kept with handles on the outside and provided with a tightly fitting cover, which cover shall not be removed except when absolutely necessary. Said vessels or tanks shall be kept or placed in the rear of the house or in basement areas or passageways most accessible to be collected, and never upon the street, alley, sidewalk, or other public place, and shall be of a capacity of not more than 2 bushels. All such vessels or tanks shall be promptly delivered to the collector when called for, and shall be returned by him to said place or places without unnecessary delay; and no person except for such purpose authorized shall in any manner interfere with said vessels or tanks or the contents thereof.

SEC. 2. The words garbage and offal as used in this ordinance shall be held to include every refuse accumulation of animal, fruit or vegetable matter, or otherwise that attends the preparation, use, cooking, dealing in, or storage of meats and fowls, fruits, or vegetables; and it shall be unlawful for any person to place in said vessels or tanks any ashes, refuse, water, waste, or other material whatsoever.

CHELSEA, MASS.

Domestic Animals—Not To Be Kept Without License. (Rule, Board of Health, Adopted Oct. 29, 1912.)

RULE 86 A. No person shall allow to be kept in any building, or on the premises of which he may be the owner, lessee, tenant, or occupant, any cow or cows, horses, hens, or swine without a license being granted for same by the board of health.

LOS ANGELES, CAL.

Midwifery-Practice of. (Ordinance No. 2503, Adopted May 7, 1912.)

SEC. 1. It shall be unlawful for any person to practice midwifery or obstetrics or to act as accoucheur, or to attend or assist or advise at the birth of any child without first applying for and receiving a permit in writing so to do from the health commissioner.

Any person desiring such a permit shall make and file with the health department of the city of Los Angeles an application therefor in writing. The name, age, sex, residence, place of business, and occupation of the applicant shall be stated in such application and the previous experience of the applicant shall be stated fully therein. The applicant shall state in such application where he or she shall have resided for a period of five years next preceding the date of filing such application. Such application shall be signed by the applicant and shall be sworn to before an officer authorized to administer oaths.

Nothing herein contained shall be construed to require any person to obtain a permit under the provisions of this ordinance if such person has, prior to the adoption of this ordinance, obtained a permit under the provisions of ordinance No. 20606 (new series), and such permit has not been revoked, and a new permit is not specifically required to be obtained under the provisions of this ordinance.

Sec. 2. The health commissioner shall make an investigation as to the experience and history of each person applying for such a permit, and if it shall be found that any such person has committed any criminal or immoral act, or has been guilty of any crime or of any criminal or immoral practice, the application of such person shall be denied by the said health commissioner.

If the said health commissioner shall not find that such applicant has committed any criminal or immoral act, or has been guilty of any crime or of any criminal or immoral practice, then the said health commissioner shall make a careful and thorough examination of the qualifications possessed by such applicant to practice midwifery or obstetrics, or to act as accoucheur, or to attend or assist or advise at the birth of children. Such examination may be written or oral, or both, in the discretion of the health commissioner.

Sec. 3. If the said health commissioner shall determine that such application should be granted, a permit, in writing, shall be issued to the person applying therefor.

SEC. 4. If the holder of any such permit shall commit any criminal or immoral act, or shall be guilty of any crime or of any criminal or immoral practice, the health commissioner shall revoke the permit of such person.

SEC. 5. No such permit shall be revoked until a hearing shall have been had by the health commissioner, notice of which hearing shall be given in writing and served at least three days prior to the date of hearing upon the holder of such permit. Such notice shall state the ground of complaint against the holder of such permit and shall also state the time when and place where such hearing will be had. Such notice shall be served upon the holder of such permit by delivering the same to such person, or to any person of suitable age and discretion in charge of or employed in the place of business of such person; or if such person has no place of business, then at his or her place of residence; or by leaving such notice at the place of residence of such person, with

some person of suitable age and discretion. If the holder of such permit can not be found and service of such notice can not be made upon him or her in the manner herein provided, then a copy of such notice shall be mailed, postage fully prepaid, addressed to such holder of such permit at such place of business or residence at least three days prior to the date of such hearing.

SEC. 6. The provisions of this ordinance shall not apply to any physician licensed as such by the State of California in the manner required by law or to any person assisting at the birth of any child under the direction and in the presence of a phy-

sician so licensed.

Sec. 7. Each person filing an application for a permit pursuant to the provisions of this ordinance shall deposit the sum of \$5 with the health department at the time of filing such application. If such application is granted, the said sum shall be retained by the city. If the application is not granted, one-half of such sum shall be returned to the applicant, and the remainder shall be retained by the city for the purpose of reimbursing the city for the expense of making the investigation required by this ordinance and the holding of the examination, if an examination is held.

Sec. 8. Each such permit shall expire at the end of one year from and after the date thereof, unless sooner revoked. Such permit may be renewed by the health commissioner from year to year, without examination, upon the payment of a fee of \$1. Each such renewal shall expire at the end of one year from and after the date

thereof, unless sooner revoked.

SEC. 9. All moneys received pursuant to the provisions of this ordinance shall be at once deposited in the city treasury, and all moneys returned to any applicant shall be upon a demand or demands filed, approved, and audited in the same manner as other demands against the city are filed, approved, and audited.

SEC. 10. That any person violating any of the provisions of this ordinance shall be deemed guilty of a misdemeanor, and upon conviction thereof shall be punishable by a fine of not less than \$5 nor more than \$500, or by imprisonment in the city jail for a period of not more than six months, or by both such fine and imprisonment.

Sec. 11. That ordinance No. 20606 (new series), approved July 19, 1910, be, and the same is hereby, repealed: *Provided*, That any such repeal shall not affect or prevent the prosecution and punishment of any person, firm, or corporation for any act done or permitted in violation of any ordinance which may be repealed by this ordinance, and shall not affect any prosecution or action which may be pending in any court for the violation of any ordinance repealed by this ordinance.

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